



Figure 1A

1 agagagcagctcccttccccctcgggcgaggaggaaggaagaagaaagccagagagagagag
61 agagatcatcgagcttctctcccgaccatttgactgagactgtgattacaacacaccgt
121 tgatcctacgaaaaagaggtaatggatactggcggaattcgctggcgctccggacctgat
M D T G G N S L A S G P D 13
181 ggtgtgaagaggaaagtgttatttctatgacctgaggtcggcaattactactatggc
G V K R K V C Y F Y D P E V G N Y Y Y G 33
241 caagggtcatcccatgaagccccatcgcatccgcgatgacctatgccccctctcgtcactac
Q G H P M K P H R I R M T H A L L A H Y 53
301 ggtctccttcagcatatgcaggttctcaagcccttccctgccccggaacgtgatctctgc
G L L Q H M Q V L K P F P A R E R D L C 73
361 cgcttccacgcccagcactatgtctcttttctccgcagcattacctctgaaacccagcaa
R F H A D D Y V S F L R S I T P E T Q Q 93
421 gatcagattcgccaacttaagcgcttcaatgttggtgaagactgtcccgctctttgacggc
D Q I R Q L K R F N V G E D C P V F D G 113
481 ctttattctcttttgccagacctatgctggaggatctgttggtggctctgtcaagcttaac
L Y S F C Q T Y A G G S V G G S V K L N 133
541 cagggcctctgcgatattgccatcaactgggctgggtggtctccatcacgctaagaagtgc
H G L C D I A I N W A G G L H H A K K C 153
601 gaggcctctggcttctgttactgtaatgatctgcttagctatcctagagctccttaag
E A S G F C Y V N D I V L A I L E L L K 173
661 cagcatgagcgtgttctttatgtcgatattgatatccaccacggggatggagtgaggag
Q H E R V L Y V D I D I H H G D G V E E 193
721 gcattttatgctactgacaggggttatgactgtctcgtttccataaatttggtgattacttt
A F Y A T D R V M T V S F H K F G D Y F 213
781 cccggtacaggtcacatttcaggatataagggttatggtagcggaaagtactattctctcaat
P G T G H I Q D I G Y G S G K Y Y S L N 233
841 gtaccactggatgggaatcgatgatgagagctatcatctgttattcaagcccatcatg
V P L D D G I D D E S Y H L L F K P I M 253
901 gggaaagtattggaaattttccgaccaggggctgtggtattgcaatgtggtgctgactcc
G K V M E I F R P G A V V L Q C G A D S 273
961 ctatctggggatcggttaggttgcttcaatctttcaatcaaaggctcatgctgagtgcgtc
L S G D R L G C F N L S I K G H A E C V 293
1021 aaattttatgagatcggttcaatgttccccctactgctcttgggtgggtgggttacactatc
K F M R S F N V P L L L G G G G Y T I 313
1081 cgcaatgttgcgggttggtgctacgagactggaggttgcaacttgaggttgaaagttaa
R N V A R C W C Y E T G V A L G V E V E 333
1141 gacaagatgccggagcatgaatattatgaatactttggtccagactatacacttcacgtt
D K M P E H E Y Y E Y F G P D Y T L H V 353
1201 gctccaagtaacatggaaaaataagaattctcgtcagatgcttgaagagattcgcaatgac
A P S N M E N K N S R Q M L E E I R N D 373
1261 cttctccacaatctctcttaagcttcagcatgctccaagtgtaccatttcaggaaagacca
L L H N L S K L Q H A P S V P F Q E R P 393
1321 cctgatacagagactccccgaggttgatgaagaccaagaagatggggataaaaagatgggat
P D T E T P E V D E D Q E D G D K R W D 413
1381 ccggattcagacatggatgttgatgatgaccgtaaacctataccaagcagagtaaaaaga
P D S D M D V D D D R K P I P S R V K R 433
1441 gaagctgttgaaccagatacaaaggacaaggatggactgaaaggaattatggagcgtgga
E A V E P D T K D K D G L K G I M E R G 453
1501 aaagggttgtagggtggaggtggatgagagtgggaagcactaagggttacaggagtaaaccca
K G C E V E V D E N S G S T K V T G V N P 473
1561 gtgggagtgagggaagcaagtgtgaaaatggaagaggaaggaacaaacaaggggtggggcg
V G V E E A S V K M E E E G T N K G G A 493
1621 gagcagcgctttctctctaaacataagactcggagcttctaatctcttctactttttc
E Q A F P P K T * 502 501
1681 tgtctatcaaagtgttgctagttaagtttctggagttgttgttgttgaagcactcctctg
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1801 atgacaa

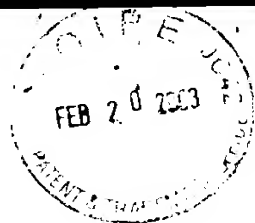


Figure 3

AtRPD3A	MD-----TGG	NSLAS' GPDG	VKRKVCYFYD	FEVGNYYYYGQ	GHPMKPHRIE	45-44
AtRPD3B	MEADES' I--	-SLPS-GPDG	PKRRVS YFYE	ETIEDYVYGO	GHPMKPHRIE	47
ZmRPD3	MDPSSAGSGG	NSLPSVGPDG	QKRKVCYFYD	PDVGNYYYYGQ	GHPMKPHRIE	50
RPD3	IVYEATPFD-	---EITVKPS	DKRRVA YFYD	ADVGNVAYGA	GHPMKPHRIE	46
AtRPD3A	MTHALLAHYG	LLQHMOVLPK	FPARERDLCR	FHADDVSEFL	RSITPETOC	95-44
AtRPD3B	MAHSLIHYH	LHRRLEISR	SLADASDGR	FHSPEYVDFL	ASVSPESMG	97
ZmRPD3	MTHSLLAR YC	LLNQMOVYRF	NPARERELCR	FHAEVYINFL	RSVTPETOC	100
RPD3	MAHSLIMNYG	LYKKMEIYRA	KPATKQEMCQ	FHTDEYIDFL	SRVTPD LEM	96
AtRPD3A	OT--RQLKRF	NVGEDCPVFD	GLYSEFCOTYA	GGSVGGSVKL	NHGLCDIAI	143-142
AtRPD3B	PSAARNLRRE	NVGEDCPVFD	GLFDECRASA	GGSIGAAVKL	NRQDADIAI	147
ZmRPD3	OT--RLKRF	NVGEECPVLD	GLYSEFCOTYA	ASVGGAVHF	NHGH-DIAI	148-147
RPD3	--FKESVKF	NVGEDCPVFD	GLYEY S I G	GGSEGAARE	NREKEDVAV	144
AtRPD3A	WAGGLHHAKE	CEASGFCYVN	DIVLAILLELL	FOHERVLYVE	IDIHGGDGV	193-192
AtRPD3B	WAGGLHHAKE	SEASGFCYVN	DIVLGILELL	EMFKRVLYID	IDVHGGDGV	197
ZmRPD3	WAGGLHHAKE	CEASGFCYVN	DIVLAILLELL	EMFKRVLYVE	IDIHGGDGV	198-197
RPD3	WAGGLHHAKE	SEASGFCYVN	DIVLGILELL	RYHPEVLYID	IDVHGGDGV	194
AtRPD3A	BAFYATDRVM	TVSFHKFGDY	FPGTGHIQDI	GYSSGKYYSL	NVPLDDGIDL	243-242
AtRPD3B	BAFYTTDRVM	TVSFHKFGDF	FPGTGHIRDV	GAEGKGYYAL	NVPLNDGMDI	247
ZmRPD3	BAFYTTDRVM	TVSFHKFGDY	FPGTGDIRDI	CHSGKGYYSL	NVPLDDGIDL	248-247
RPD3	BAFYTTDRVM	TCSEHKYGEF	FPGTGELRDI	QVAGENYAV	NVPLRDGIDL	244
AtRPD3A	ESYHLLEKPI	MGKVMEIFRF	GAVVLOCGAD	SLSGDRLGCF	NLSIKGHAE	293-292
AtRPD3B	ESFRSLFRFL	LQKVMEVYOF	EAVVLOCGAD	SLSGDRLGCF	NLSVKGHAD	297
ZmRPD3	ESYSLFKPI	MGKVMEVERP	GAVVLOCGAD	SLSGDRLGCF	NLSIKGHAE	298-297
RPD3	ATYRSVFEPV	IKKIMEVYOF	SAVVLOCGGD	SLSGDRLGCF	NLSMEGHAN	294
AtRPD3A	VKFMRSFNVE	LLLLGGGGYT	IRNVARCWY	ETGVALGVEN	EDKMFHEHY	342-342
AtRPD3B	LRFRLRSYNVP	LMVLGGGGYT	IRNVARCWY	ETAVAVGVEN	DNKLPYNEF	347
ZmRPD3	VRFMRSFNVE	LLLLGGGGYT	IRNVARCWY	ETGVALGVEN	EDKMFVNEY	348-347
RPD3	VNVVKSFGIF	MMVVGGGGYT	MRNVARTWCF	ETGLLNNVVL	EDKLPYNEY	344
AtRPD3A	EYFGPDYTLH	VAPSNMENKH	SROMLEEIRN	DLLHNLSKLO	HAPSVFOEH	393-392
AtRPD3B	EYFGPDYTLH	VDPSNMENKH	TPKDMERIRN	TLLHNLSGLI	HAPSVFOEH	397
ZmRPD3	EYFGPDYTLH	VAPSNMENKH	TRQJLDDIPS	----KLSKLR	HAPSVHFOEP	398-393
RPD3	EYFGPDYKLS	VRPSNMFTV	TPEYLDKVM	NIEANLENTK	YAPSVGLNHT	394
AtRPD3A	PPDTETPEVD	EDQFDGDMRW	DPDSMDVDD	D-----R	KPIPSRVKRE	435-434
AtRPD3B	PPVNRVLD--	EDQFDGDMRW	EPEDDME---	-----TF	EP---RIWSG	421
ZmRPD3	VPDTEIPEQD	EDQDEPDERH	DPDSMEVDL	HKAVEEESRE	SILGKIKRF	444-443
RPD3	P-----	-----	DAEDLGDEVE	SA-----	-----	408-409
AtRPD3A	AVSPDKDKD	SLFGIMERCK	GCHVEVDES	STVVT---GV	NPVVEVEAS	481-480
AtRPD3B	TATYESDSDE	DDPL--HGY	S-----	--RGGATTOR	DSTJEDEMDC	459
ZmRPD3	FGNATRVOV	SGRVASEH-R	SLPMAEDIE	SSQAPQAA	SAMAI DEP N	493-492
RPD3	-----	-----	-----	-----	BAK	412-413
AtRPD3A	VRMEEGTNE	GGAEQAFEP	T			502-501
AtRPD3B	DNPEFDVNP-	-----SS				471
ZmRPD3	VRNEPESST	CGQCAAYH	P			514-513
RPD3	TGGSQYARD	CHVHDNEFY				422-423



Figure 4

AtHD2A	MEFWGIEVKS	GKPVTVTPPE	GIUIHISOAS	LGECKNKKGE	FVPEHVKVGN	50
AtHD2B	MEFWGVAVTE	KNATKVTPEE	DSLWHISOAS	L-DCTVKSGE	QVVELSVTVGS	49
ZmHD2	MEFWGLEVKF	GSTVCEFGY	GFVLHISOAA	LGES	KKSD NALMTVFIID	48
AtHD2A	QNLVLGTLST	ENIPOLFCDL	VFDKEFELSH	TWGGKSVYFV	GYKTPNIEPQ	100
AtHD2B	AKLVIGTLSQ	DKFPQISFDL	VFDKEFELSH	SGTRANVHFI	GYKSPNIEQD	99
ZmHD2	OKLAI GTLSV	DYNBHTIFDL	IFDKFELSH	TSKTTSVFET	GYFVEQPFEE	98
AtHD2A	GYSEEEEE-	EEVPA GNAA	-----	---KAVAKPK	AKPAEVKPPV	136
AtHD2B	DFTSGDEELV	BEAVPAPAPT	AVTANGNAGA	AVVRADTKPK	AKPAEVKPAE	149
ZmHD2	DEMDLDEDE	DEELNVE---	VVKENGKADE	KKQSQERAV	AAFSKSSPDS	145
AtHD2A	----DEEDE	SDS- -	-----GMD	EDSGGEDSE	EEE-----	162
AtHD2B	EPESDEEDE	SEDEGESEEE	--DDSEKGM	VDDESDDEE	EEDSEDEEEE	197
ZmHD2	KPSKDDESD	EDETSDSDEE	ETDDSDSLS	SEEGESSED	EDDTSDDEE	195
AtHD2A	ETP--KKPAS	-SKKRANETT	PKAPVSAKKA	KVAV----TF	OKTDSK---	202
AtHD2B	ETP--KKPEP	INKKRPNESV	SKTPVSGKKA	EPAAAPASTP	OK-----TEK	240
ZmHD2	ETP--KKPEV	CHZRRPSSV	ETDLSCKKA	KVATPSS	OKTSC	238
AtHD2A	-KGGKA----	-----	-----AN	OSPKSASQVS	CGSC-KKTFN	229
AtHD2B	KKGG--HTAT	PHPAK-----	KGGKSPVNAN	OSPKSGGQSC	CGNMNKKPFN	283
ZmHD2	-KGAAVHAT	PHPAKGRFIV	NNDKSVKSPK	SAPKSGGSVP	CKPQSS-SFI	287 286
AtHD2A	SGNALE-SHN	KAKHAAAK				245
AtHD2B	SGKQFGGSM	EGSNKGGKGG	RA			305
ZmHD2	SETALQA-HS	RAKMGASESQ	VQ			308 307